Gmail by Google

Nathan Schumaker <[redacted]>

Quick, important question

11 messages

Nathan Schumaker <[redacted]> **Fri, Jul 9, 2010 at 10:18 AM**
To: "Anthony, Robert G - FW" <robert.anthony@oregonstate.edu>, katie.dugger@orst.edu, Brendan White <Brendan_White@fws.gov>, Bruce Marcot <brucem@spiritone.com>, Brian Woodbridge <Brian_Woodbridge@fws.gov>, Jeffrey Dunk <Jeffrey.Dunk@humboldt.edu>, Dave LaPlante <dave@nrg-gis.com>
Cc: "[redacted]" <[redacted]>

Hi all,

Bob Anthony has given me values for the probability that a spotted owl will encounter a barred owl.
The data is stratified by study area, but I'd like to extend it from study areas to the modeling regions.

The study areas for which Bob supplied data are:

CLE
RAI
OLY
COA
HJA
TYE
CAS
KLA
NWC
HUP
GDR

The modeling regions I'm working with are:

North Coast Olympics
West Cascades North
East Cascades North
West Cascades Central
Puget Willamette North
Puget Willamette East
Puget Willamette West
West Cascades South
Oregon Coast
Klamath East
Klamath West
East Cascades South
Inner California Coast Ranges
Redwood Coast

Would one of you be able to provide me with a cross-walk that assigns exactly one study area to each modeling region. (Its OK for multiple regions to be assigned the same study area.)

Thanks,

Nathan

--
Nathan Schumaker
[redacted]
(541) 754-4658

Brendan_White@fws.gov <Brendan_White@fws.gov> **Fri, Jul 9, 2010 at 11:11 AM**

To: Nathan Schumaker <[redacted]>
Cc: Brian Woodbridge <Brian_Woodbridge@fws.gov>, Bruce Marcot <brucem@spiritone.com>, Dave LaPlante <dave@nrg-gis.com>, Jeffrey Dunk <Jeffrey.Dunk@humboldt.edu>, katie.dugger@orst.edu, "[redacted]" <[redacted]>, "Anthony, Robert G - FW" <robert.anthony@oregonstate.edu>

Unfortunately, I think the answer is no, because in some cases the DSAs straddle more than one Modeling Region.

See my assignments below. These are based on my visual interpretation of the Modeling Regions/DSA map Dave LaPlante put together awhile back.

Feel free to check my "math."

Brendan White

U.S. Fish and Wildlife Service
Oregon State Office
(503)231-6179
Brendan_White@fws.gov

Nathan Schumaker <[redacted]> 07/09/2010 10:18 AM

To: "Anthony, Robert G - FW" <robert.anthony@oregonstate.edu>, katie.dugger@orst.edu, Brendan White <Brendan_White@fws.gov>, Bruce Marcot <brucem@spiritone.com>, Brian Woodbridge <Brian_Woodbridge@fws.gov>, Jeffrey Dunk <Jeffrey.Dunk@humboldt.edu>, Dave LaPlante <dave@nrg-gis.com>

cc: "[redacted]" <[redacted]>

Subject: Quick, important question

Hi all,

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The modeling regions I'm working with are:

North Coast Olympics	RAI
West Cascades North	RAI (very little)
East Cascades North	CLE,
West Cascades Central	RAI (there is some CLE here, but less than RAI)
Puget Willamette North	
Puget Willamette East	
Puget Willamette West	
West Cascades South	HJA
Oregon Coast	COA,TYE (someone needs to help me decide which one)
Klamath East	CAS (~40%), KLA (someone needs to help me decide which one)
Klamath West	KLA, NWC(mostly, ~85%), HUP (help....)
East Cascades South	CAS (~60%)
Inner Callifornia Coast Ranges	NWC(<10%)
Redwood Coast	GDR (or SIM)

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Bruce G. Marcot <brucem@spiritone.com> **Fri, Jul 9, 2010 at 11:25 AM**
To: Nathan Schumaker <[redacted]>

Brian or Brendan probably need to do this.
But I'm curious how you're wiring in this probability of encounter; I'm not aware of such a parameter in HexSim. Maybe there's a new version?
- bruce

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-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --
Bruce G. Marcot, Ph.D. Research Wildlife Ecologist
brucem@SpiritOne.com
-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --
Ecology Picture of the Week:
http://www.taos-telecommunity.org/epow/
The Plexus -- Where Disciplines Collide:
http://www.spiritone.com/~brucem
-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --
** personal correspondence **

Bruce G. Marcot <brucem@spiritone.com> **Fri, Jul 9, 2010 at 11:38 AM**
To: Brendan_White@fws.gov
Cc: Nathan Schumaker <[redacted]>

Yeah, this is what has bothered me about GIS from the start, all those damn *boundaries*. Nuthin' but a pain when stuff overlaps...

I'd like to see a GIS system *without boundaries*, like the old maps of Native American hunting areas that would overlap and ebb and flow with seasons and years and wildlife movements, with no fixed edges.
Most of gene flow probably is this way too...
OK, next project, eh?... or Nathan's next HexSim version... :-P

FYI, I'll be back east at NCTC all next week, at the request of FWS (Teresa Woods & Steve Morey), to help devise a possible interagency certification training program on structure decision making. My experience with all the fun FWS projects I've helped with, really adds to my experience base for such a task; thanks for this ongoing opportunity. Now it can go "interagency" and "national" ... uh-oh!

- bruce

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-- -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --
Bruce G. Marcot, Ph.D. Research Wildlife Ecologist
brucem@SpiritOne.com
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** personal correspondence **

Nathan Schumaker <[redacted]> **Fri, Jul 9, 2010 at 11:43 AM**
To: "Bruce G. Marcot" <brucem@spiritone.com>

Hi Bruce,

I'm just up to my old tricks -- not new ones.

I've changed the survival event so that I have one set of rates without barred owl influence, then a second set of rates with barred owls. The rates are from Bob's email. In that email, Bob also supplied probabilities -- by study area -- that spotted owls would encounter barred owls. I believe you got that email... right?

So I'm using a probabilistic trait to record barred owl presence. A transition event will set this flag on/off based on Bob's probabilities. I can stratify the transition trait by modeling region, since they are mutually exclusive...

Does this make sense?

NS

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Dave LaPlante <dave@nrg-gis.com> **Fri, Jul 9, 2010 at 11:43 AM**
To: Nathan Schumaker <[redacted]>

Hi Nathan

I'll get that out to you in just a few minutes

David W. LaPlante

Natural Resource Geospatial

Geodata Systems Development

GIS / Information Services

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Fax.....(530) 842-1733

Cell.....(530) 598-0876

dave@nrg-gis.com

From: Nathan Schumaker [mailto [redacted]]
Sent: Friday, July 09, 2010 10:19 AM
To: Anthony, Robert G - FW; katie.dugger@orst.edu; Brendan White; Bruce Marcot; Brian Woodbridge; Jeffrey Dunk; Dave LaPlante
Cc: [redacted]r
Subject: Quick, important question

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Bruce G. Marcot <brucem@spiritone.com> **Fri, Jul 9, 2010 at 12:05 PM**
To: Nathan Schumaker <[redacted]>

You are TOOOOO clever, compadre.
I grok.

[Quoted text hidden]

Anthony, Robert G - FW <robert.anthony@oregonstate.edu> **Fri, Jul 9, 2010 at 1:14 PM**
To: "Brendan_White@fws.gov" <Brendan_White@fws.gov>, Nathan Schumaker <[redacted]>
Cc: Brian Woodbridge <Brian_Woodbridge@fws.gov>, "katie.dugger@orst.edu" <katie.dugger@orst.edu>

Brendan & Nathan:
Brendan has the cross-walk mostly right but did not use OLY and HUP, which should be included. I have noted some changes below:

Bob

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North Coast Olympics	OLY (RGA)
West Cascades North	RAI (very little)
East Cascades North	CLE,
West Cascades Central	RAI (there is some CLE here, but less than RAI)---No, I don't believe so (RGA)
Puget Willamette North	
Puget Willamette East	
Puget Willamette West	
West Cascades South	HJA and CAS (RGA)
Oregon Coast	COA,TYE (someone needs to help me decide which one)----Actually it is both, RGA
Klamath East	KLA---this is correct (RGA)
Klamath West	KLA, NWC(mostly, ~85%), HUP (help....)
East Cascades South	CAS (~60%)
Inner California Coast Ranges	NWC(<10%) and HUP (RGA)

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Nathan Schumaker <[redacted]> **Fri, Jul 9, 2010 at 4:02 PM**
To: "Anthony, Robert G - FW" <robert.anthony@oregonstate.edu>
Cc: "Brendan_White@fws.gov" <Brendan_White@fws.gov>, Brian Woodbridge <Brian_Woodbridge@fws.gov>, "katie.dugger@orst.edu" <katie.dugger@orst.edu>

I've tried to combine the input from Brendan, Robert, Brian, and Dave into a single table. When there were multiple study areas, I simply averaged the probabilities. If you don't mind, take a look at the table below and let me know if you agree with it.

This is strictly for assigning spotted owl - barred owl interaction probabilities.

Thanks all for the speedy feedback!

(I'm also attaching the table, in case line-wrapping makes the text below a pain to look at.)

Nathan

PROVINCE	STYDY AREAS	PROBABILITIES	VALUE
North Coast Olympics	OLY	0.505	0.505
West Cascades North	RAI	0.320	0.320
East Cascades North	CLE	0.296	0.296
West Cascades Central	RAI	0.320	0.320
Puget Willamette North	-	-	0.000
Puget Willamette East	-	-	0.000
Puget Willamette West	-	-	0.000
West Cascades South	HJA	0.548	0.548
Oregon Coast	COA, TYE	0.700, 0.719	0.710
Klamath East	CAS, KLA	0.180, 0.276	0.228
Klamath West	KLA, NWC, HUP	0.276, 0.213, 0.455	0.315
East Cascades South	CAS	0.180	0.180
Inner Callifornia Coast Ranges	NWC	0.213	0.213
Redwood Coast	GDR	0.205	0.205

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Nathan Schumaker
[redacted]
(541) 754-4658

Barred Owl Probabilities.txt
2K

Brian_Woodbridge@fws.gov <Brian_Woodbridge@fws.gov> **Fri, Jul 9, 2010 at 4:36 PM**
To: Nathan Schumaker [redacted]>
Cc: "Brendan_White@fws.gov" <Brendan_White@fws.gov>, "katie.dugger@orst.edu" <katie.dugger@orst.edu>, "Anthony, Robert G - FW" <robert.anthony@oregonstate.edu>

Hi Nathan et al;
This looks good; the spatial distribution of the DSA data require some guesses to be made. My only concern is the averaging of the CAS and KLA data to get at BAOW encounter probability for the Klamath East region. this is because the KLA is in the extreme north of the region, and the CAS is mostly east-side...both have and has a much higher incidence of BAOW than the Klamath forests to the south. So, I'd reccomend using the NWC data to indicate BAOW probabilities in the KLE, as you did for ICC. Tough call! There really isn't a DSA that represents the interior of California where BAOW are still quite scarce.

PS..I know in my earlier email I suggested averaging the two...I was thinking about home range size, not barred owl encounter probs. My bad!

bw

Brian Woodbridge
Northern Spotted Owl Recovery
Chair, Klamath Province Working Group
U.S. Fish and Wildlife Service
Yreka Fish and Wildlife Office
vox: (530) 841-3101

fax: (530) 842-4517
cell: (530) 340-3591

Nathan Schumaker <[redacted]>

Nathan Schumaker
<[redacted]>
07/09/2010 04:02 PM

To"Anthony, Robert G - FW" <robert.anthony@oregonstate.edu>
cc"Brendan_White@fws.gov" <Brendan_White@fws.gov>, Brian Woodbridge <Brian_Woodbridge@fws.gov>, "katie.dugger@orst.edu" <katie.dugger@orst.edu>
SubjectRe: Quick, important question

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(541) 754-4658*(See attached file: Barred Owl Probabilities.txt)*

2 attachments

pic24712.gif
2K

Barred Owl Probabilities.txt
2K

Anthony, Robert G - FW <robert.anthony@oregonstate.edu> **Mon, Jul 12, 2010 at 9:32 AM**
To: "Brian_Woodbridge@fws.gov" <Brian_Woodbridge@fws.gov>, Nathan Schumaker <[redacted]>
Cc: "Brendan_White@fws.gov" <Brendan_White@fws.gov>, "katie.dugger@orst.edu" <katie.dugger@orst.edu>

Nathan:

Brian makes some good points about the Klamath East region and how to represent that area. Actually, the CAS study area is mostly on the west side, so it also represents the West Cascades South region as well as the East Cascades South. I suggest that you use data from KLA (.276)and NWC (.213) to represent the Klamath East region, which would be an average of .244. Accordingly, the West Cascades South region can be represented by HJA and CAS, which is an average of .364. Otherwise, the rest of it looks good to me.

Bob

From: Brian_Woodbridge@fws.gov [mailto:Brian_Woodbridge@fws.gov]
Sent: Friday, July 09, 2010 4:36 PM
To: Nathan Schumaker
Cc: Brendan_White@fws.gov; katie.dugger@orst.edu; Anthony, Robert G - FW

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